

# GE Water & Process Technologies

# Material Safety Data Sheet

### Issue Date: 08-JUL-2011 Supercedes: 21-APR-2011

### **METCLEAR MR2416**

### 1 Identification

Identification of substance or preparation METCLEAR MR2416

Product Application Area Deposit control agent

Company/Undertaking Identification GE Betz, Inc. 4636 Somerton Road Trevose, PA 19053 T 215 355-3300, F 215 953 5524

Emergency Telephone (800) 877-1940

Prepared by Product Stewardship Group: T 215-355-3300 Prepared on: 08-JUL-2011

# 2 Hazard(s) identification

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### WARNING

May cause moderate irritation to the skin. Severe irritant to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media:
dry chemical, carbon dioxide, foam or water

### POTENTIAL HEALTH EFFECTS

### ACUTE SKIN EFFECTS:

Primary route of exposure; May cause moderate irritation to the  ${\ensuremath{\mathsf{skin}}}$  .

### ACUTE EYE EFFECTS:

Severe irritant to the eyes.

### ACUTE RESPIRATORY EFFECTS:

Mists/aerosols may cause irritation to upper respiratory tract.

#### INGESTION EFFECTS:

May cause gastrointestinal irritation.

#### PREDGET ORGANG

No evidence of potential chronic effects.

### MEDICAL CONDITIONS AGGRAVATED:

Not known.

### SYMPTOMS OF EXPOSURE:

May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

# 3 Composition / information on ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

### HAZARDOUS INGREDIENTS:

Cas# Chemical Name Range(w/w%)

(E530)AROMATIC HETEROCYCLE; TSRN 125438 - 11820 Irritant (eyes)

### 4 First-aid measures

### SKIN CONTACT:

Wash thoroughly with soap and water. Remove contaminated clothing. Thoroughly wash clothing before reuse. Get medical attention if irritation develops or persists.

### EYE CONTACT:

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

### INHALATION:

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

### INGESTION:

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

### NOTES TO PHYSICIANS:

No special instructions

## 5 Fire-fighting measures

#### FIRE FIGHTING INSTRUCTIONS:

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

#### EXTINGUISHING MEDIA:

dry chemical, carbon dioxide, foam or water

### HAZARDOUS DECOMPOSITION PRODUCTS:

oxides of carbon, nitrogen and sulfur

#### FLASH POINT:

> 200F > 93C P-M(CC)

### 6 Accidental release measures

### PROTECTION AND SPILL CONTAINMENT:

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

### DISPOSAL INSTRUCTIONS:

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

### 7 Handling and storage

#### HANDLING:

Alkaline. Do not mix with acidic material.

### STORAGE:

Shelf life = 360 days. Store above 40F ( 4C). Keep containers closed when not in use. Reasonable and safe chemical storage. Protect from freezing. Store away from acids. Do not store in aluminum containers.

# 8 Exposure controls / personal protection

### EXPOSURE LIMITS

### CHEMICAL NAME

(E530) AROMATIC HETEROCYCLE; TSRN 125438 - 11820

PEL (OSHA): LIMITS HAVE NOT BEEN ESTABLISHED BY US OSHA. TLV (ACGIH): LIMITS HAVE NOT BEEN ESTABLISHED BY ACGIH.

### ENGINEERING CONTROLS:

adequate ventilation

### PERSONAL PROTECTIVE EQUIPMENT:

Use protective equipment in accordance with 29CFR 1910 Subpart I RESPIRATORY PROTECTION:

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.

### SKIN PROTECTION:

neoprene gloves-- Wash off after each use. Replace as

# necessary. EYE PROTECTION: splash proof chemical goggles

# 9 Physical and chemical properties

Vapor Pressure (mmHG) ~ 18.0 Spec. Grav. (70F, 21C) 1.133 Vapor Density (air=1) < 1.00 25 Freeze Point (C) Freeze Point (F) Viscosity(cps 70F,21C) 10 % Solubility (water) 100.0 Slight Odor Yellow Appearance Physical State Liquid Flash Point > 200F > 93C pH As Is (approx.) 12.4 < 1.00 Evaporation Rate (Ether=1) Percent VOC:

NA = not applicable ND = not determined

# 10 Stability and reactivity

#### CHEMICAL STABILITY:

Stable under normal storage conditions.

### POSSIBILITY OF HAZARDOUS REACTIONS:

Contact with strong acids may cause a violent reaction releasing heat.

### INCOMPATIBILITIES:

May react with acids or strong oxidizers.

### DECOMPOSITION PRODUCTS:

oxides of carbon, nitrogen and sulfur

# 11 Toxicological information

Oral LD50 RAT: 7,878 mg/kg
Dermal LD50 RAT: >2,000 mg/kg
Eye Irritation Score RABBIT: IRRITANT
Ames Assay: NEGATIVE

# 12 Ecological information

### AQUATIC TOXICOLOGY

Daphnia magna 48 Hour Static Renewal Bioassay
No Effect Level= 1140; 5% Mortality= 2000 mg/L
Golden Orfe 96 Hour Static Renewal Bioassay
No Effect Level= 1500 mg/L

### BIODEGRADATION

No Data Available.

# 13 Disposal considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is:
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

# 14 Transport information

Transportation Hazard: Not Applicable

DOT: Not Regulated

DOT EMERGENCY RESPONSE GUIDE #: Not applicable

Note: Some containers may be DOT exempt, please check BOL for

exact container classification

IATA: Not Regulated

IMDG: Not Regulated

# 15 Regulatory information

TSCA:

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

No regulated constituent present at OSHA thresholds

NSF Registered and/or meets USDA (according to 1998 Guidelines):

Registration number: Not Registered

SARA SECTION 312 HAZARD CLASS:

Immediate(acute)

SARA SECTION 302 CHEMICALS:

No regulated constituent present at OSHA thresholds

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

### CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65);

No regulated constituents present

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

### 16 Other information

### HMIS VII CODE TRANSLATION

Health 2 Moderate Hazard
Fire 0 Minimal Hazard
Reactivity 0 Minimal Hazard
Special NONE No special Hazard
(1) Protective Equipment B Goggles, Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

### CHANGE LOG

EFFECTIVE

	DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	21-APR-2011		** NEW **
	08-JUL-2011	16	21-APR-2011